

Appln. No. 09/903,048

Docket No. 1625-118

Amendment

Reply to Office Action dated February 27, 2003

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1 1. (Currently amended) An electromagnetic reciprocal drive mechanism having:
2 a permanent magnet cluster with plate-like permanent magnets cylindrically
3 arranged; ;
4 a support for concentrically supporting said permanent magnet cluster in such a
5 manner that said support is flush with said cluster; ;
6 a laminated core provided adjacent to said permanent magnet cluster, and an
7 electromagnetic coil wound around said laminated core; ;
8 wherein a sheet having an adhesive layer on an inner surface and which can be
9 impregnated with an adhesive is wrapped around an outer periphery of said permanent
10 magnet cluster and said support, and said permanent magnet cluster is integrally secured
11 to said support by impregnating an adhesive into said sheet and solidifying.
- 1 2. (Original) An electromagnetic reciprocal drive mechanism according to claim 1,
2 wherein a material of said sheet is paper.
- 1 3. (Original) An electromagnetic reciprocal drive mechanism according to claim 1,
2 wherein a plurality of small holes are formed in said sheet and adhesive layer.
- 1 4. (Original) An electromagnetic reciprocal drive mechanism according to claim 2,
2 wherein a plurality of small holes are formed in said sheet and adhesive layer.

Appln. No. 09/903,048

Docket No. 1625-118

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1 5. (Currently amended) An electromagnetic reciprocal drive mechanism
2 according to claim 1, wherein said support comprises a base end support member for
3 concentrically supporting a base end of said permanent magnet cluster in such a manner
4 that said base end support member is flush with said cluster.

1 6. (Currently amended) An electromagnetic reciprocal drive mechanism
2 according to claim 2, wherein said support comprises a base end support member for
3 concentrically supporting a base end of said permanent magnet cluster in such a manner
4 that said base end support member is flush with said cluster.

1 7. (Currently amended) An electromagnetic reciprocal drive mechanism
2 according to claim 5, wherein said support further comprises a tip end support member for
3 concentrically supporting a tip end of said permanent magnet cluster in such a manner
4 that said tip end support member is flush with said cluster.

1 8. (Currently amended) An electromagnetic reciprocal drive mechanism
2 according to claim 6, wherein said support further comprises a tip end support member for
3 concentrically supporting a tip end of said permanent magnet cluster in such a manner
4 that said tip end support member is flush with said cluster.

1 9. (Currently amended) A movable part for an electromagnetic reciprocal drive
2 mechanism comprising:
3 a permanent magnet cluster with plate like permanent magnets cylindrically
4 arranged;
5 a support for concentrically supporting said permanent magnet cluster in such a
6 manner that said support is flush with said cluster;
7 wherein a sheet having an adhesive layer on an inner surface and which can be
8 impregnated with an adhesive is wrapped around an outer periphery of said permanent
9 magnet cluster and said support, and said permanent magnet cluster is integrally secured
10 to said support by impregnating an adhesive into said sheet and solidifying.

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1 10. (Original) A movable part for an electromagnetic reciprocal drive mechanism
2 according to claim 9, wherein a material of said sheet is paper.

1 11. (Original) A movable part for an electromagnetic reciprocal drive mechanism
2 according to claim 9, wherein a plurality of small holes are formed in said sheet and
3 adhesive layer.

1 12. (Original) A movable part for an electromagnetic reciprocal drive mechanism
2 according to claim 10, wherein a plurality of small holes are formed in said sheet and
3 adhesive layer.

1 13. (Currently amended) A movable part for an electromagnetic reciprocal drive
2 mechanism according to claim 9, wherein said support comprises a base end support
3 member for concentrically supporting a base end of said permanent magnet cluster in
4 such a manner that said base end support member is flush with said cluster, and a tip end
5 support member for concentrically supporting a tip end of said permanent magnet cluster
6 in such a manner that said tip end support member is flush with said cluster.

1 14. (Currently amended) A movable part for an electromagnetic reciprocal drive
2 mechanism according to claim 10, wherein said support comprises a base end support
3 member for concentrically supporting a base end of said permanent magnet cluster in
4 such a manner that said base end support member is flush with said cluster, and a tip end
5 support member for concentrically supporting a tip end of said permanent magnet cluster
6 in such a manner that said tip end support member is flush with said cluster.

1 15. (New) An electromagnetic reciprocal drive mechanism according to claim 1,
2 wherein a material of said sheet is paper made of pulp.

Appln. No. 09/903,048

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- 1 16. (New) An electromagnetic reciprocal drive mechanism according to claim 9,
- 2 wherein a material of said sheet is paper made of pulp.